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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/726,375	1	2/03/2003	Gerald B. Eaton	85316 D	85316 D 7146	
31248	7590	08/10/2004		EXAM	EXAMINER	
ANTHON			TSOY, ELENA			
ANDREWS & KURTH L.L.P. 600 TRAVIS				ART UNIT	PAPER NUMBER	
SUITE 420	0		1762			
HOUSTON	, TX 7700	02	DATE MAILED: 08/10/2004	4		

Please find below and/or attached an Office communication concerning this application or proceeding.

	·	Application No.	Applicant(s)					
		10/726,375	EATON ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Elena Tsoy	1762					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	rely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
1)	Responsive to communication(s) filed on <u>03 E</u>	December 2003						
2a)□		is action is non-final.						
3)	Since this application is in condition for allowa	nce except for formal matters, pro						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.							
	Claim(s) <u>1-10</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement. Application Papers								
9)[The specification is objected to by the Examiner							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment		. ,						
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)					

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Response to Preliminary Amendment

1. Preliminary Amendment filed on December 3, 2003 has been entered. Claims 11-31 have been cancelled. Claims 1-10 are pending in the application.

Specification

2. The disclosure is objected to because of the following informalities: a phrase "solid C_1 through C_{19} alpha olefin monomers" on page 8, line 28, seems to be incorrect since **solid** C_1 alpha olefin monomer does not exist. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Mack (US 4,433,123).

Mack discloses a drag reducing agent formed by a process comprising: contacting C_2 - C_{30} alpha olefin monomers with a catalyst such as Ziegler-Natta catalyst (See column 1, lines 13-14), e.g. titanium trichloride (See column 4, lines 58-59) with a co-catalyst (See column 4, lines 51-53), e.g. diethylaluminum chloride or dibutylaluminum chloride (See column 5, lines 54+), in a reactant mixture (i.e. the reactant mixture includes at least one C_{20} - C_{30} alpha olefin monomers), polymerizing the alpha olefin monomers at temperature from -25 0 C to 80 0 C, preferably 10 0 C -

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30 °C, wherein during the polymerization less than 20 wt % (at least a portion) of the alpha olefin monomers polymerize in the reactant mixture to provide a polyalphaolefin (See column 1, lines 10-15; column 2, lines 42-67; column 3, lines 1-2). The formed drag reducing agent is used for reducing drag in a conduit by introducing it into the conduit (See column 7, lines 55-66). The polymer can be manufactured in an alpha olefin with no additional solvent; and the entire reaction mixture (i.e. a mixture comprising a polyalphaolefin and unreacted alpha olefin monomers including unreacted C₂₀-C₃₀ alpha olefin monomers) can then be used as a drag reducing agent for pumpable liquids (See column 3, lines 14-22; column 6, lines 44-52).

It is the Examiner's position that $C_{20} - C_{30}$ alpha olefin monomer is in fact partitioning agent as claimed because the drag reducing agent of Mack is prepared by a process substantially identical to that of claimed invention; and alpha olefin monomer partitioning agent is described by specification as any C_2 or higher alpha olefin monomers, which are solid at a temperatures at which polymerization occurs, for example $C_{20} - C_{30}$ alpha olefin monomers, which are solid at ambient temperatures (See specification, page 8, lines 16-29).

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elena Tsoy whose telephone number is (571) 272-1429. The examiner can normally be reached on Mo-Thur. 9:00-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive Beck can be reached on (571) 272-1415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Etsoy

Elena Tsoy Primary Examiner Art Unit 1762

August 6, 2004